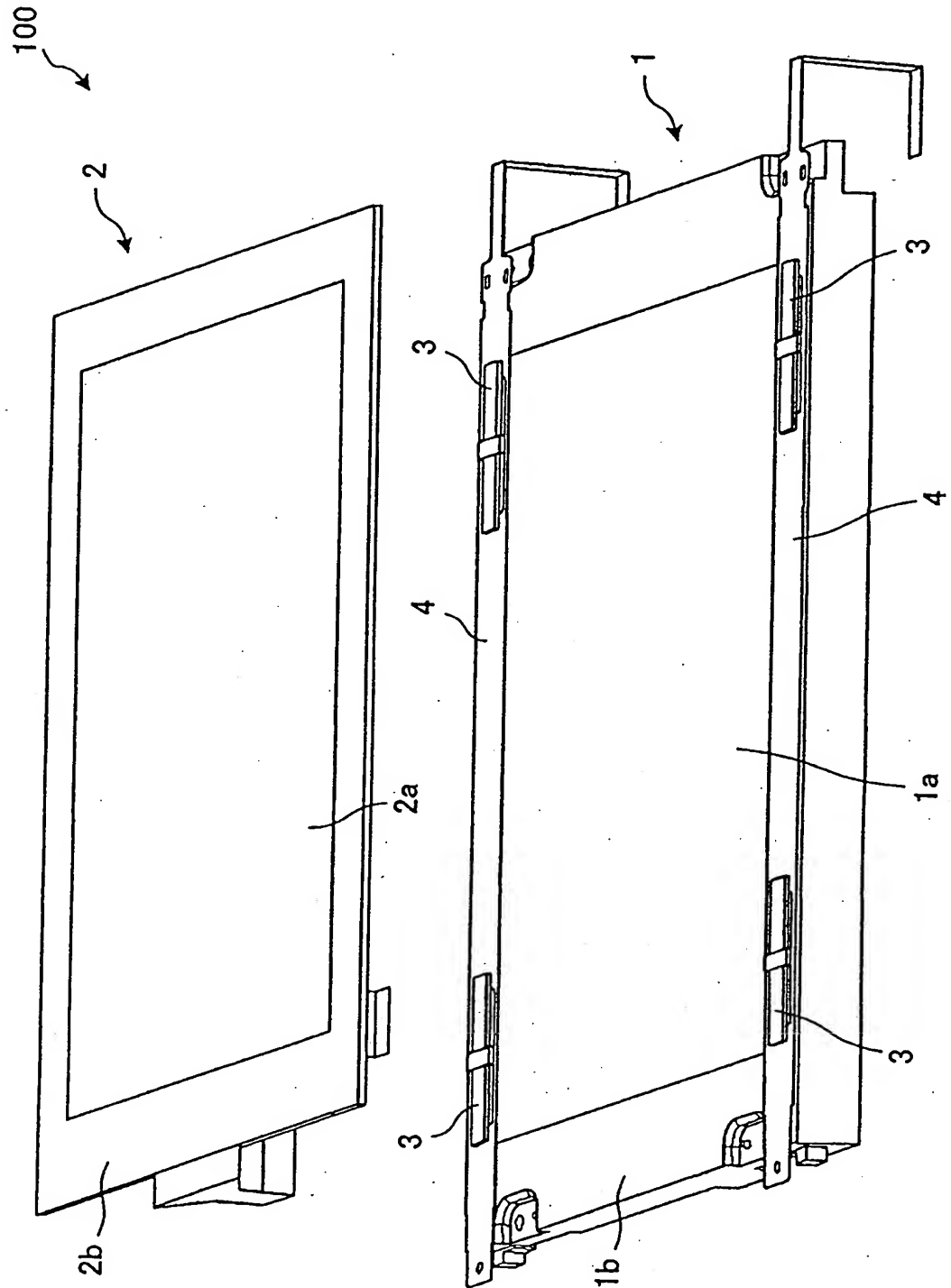
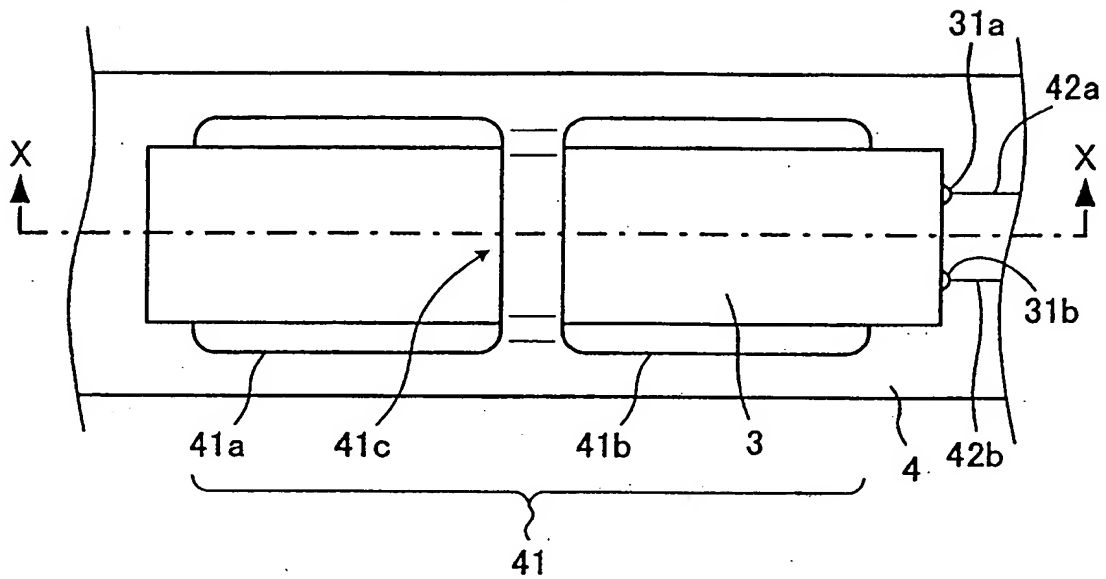


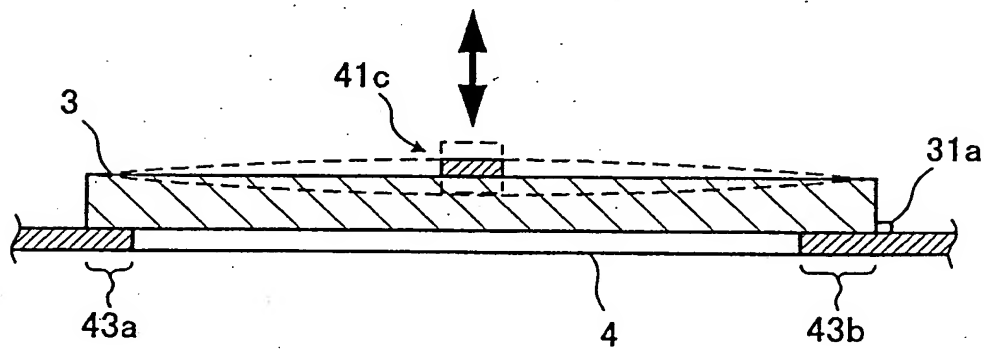
**Fig. 1**



**Fig. 2A**



**Fig. 2B**



**Fig. 3**

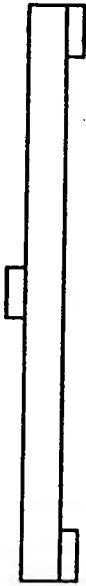
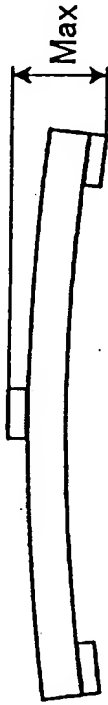

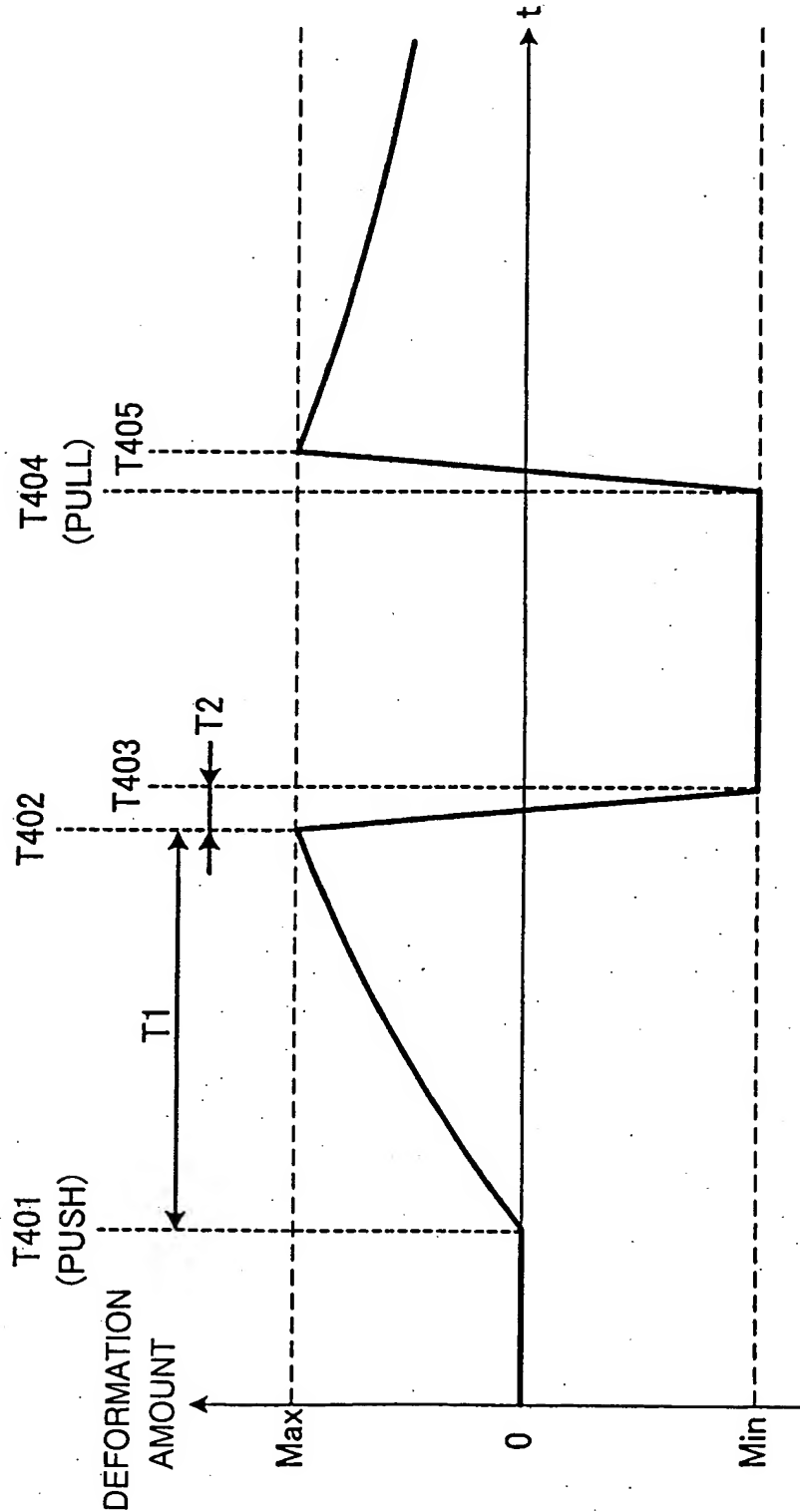
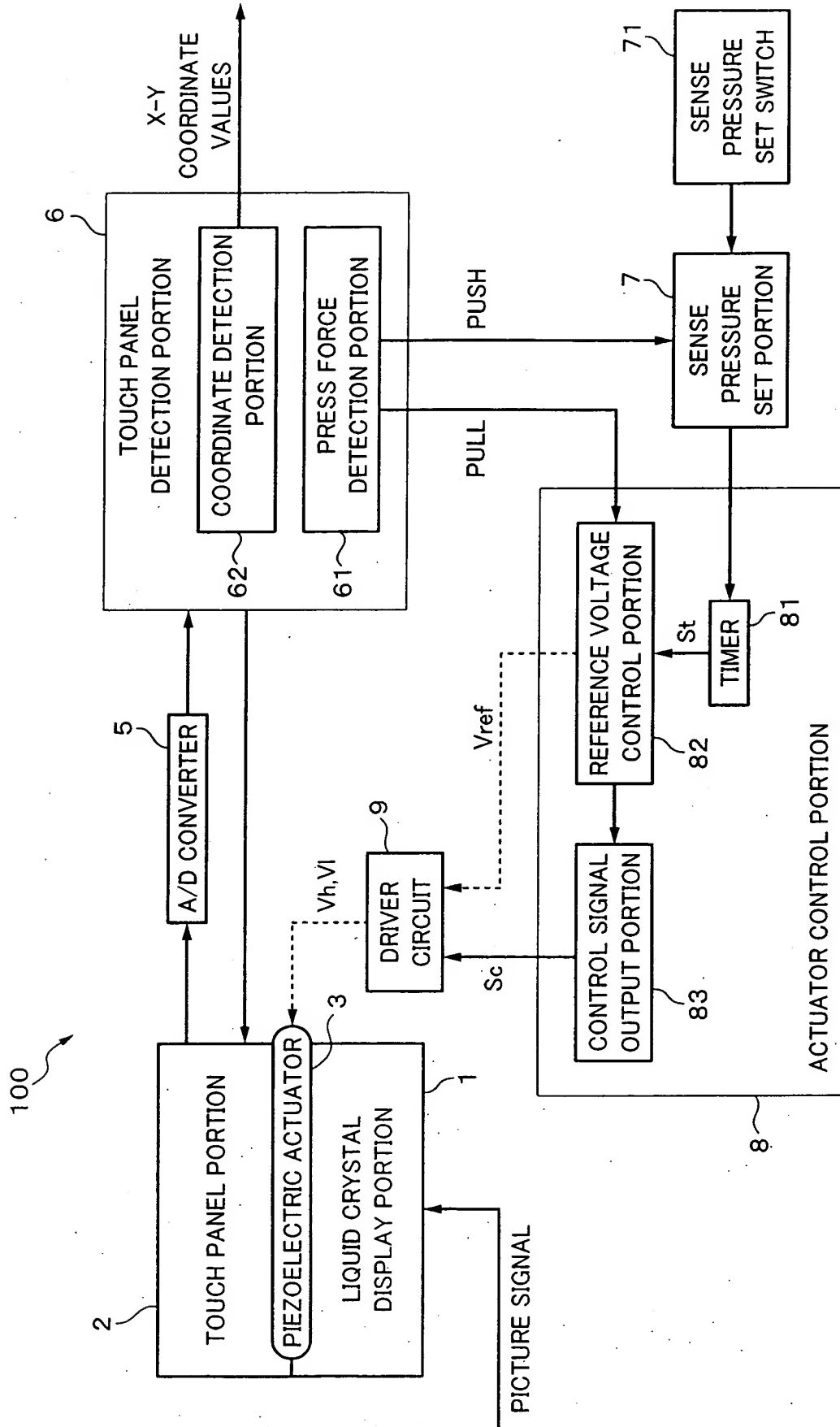
PIEZOELECTRIC ACTUATOR	V <sub>h</sub>	V <sub>i</sub>
	L	L
	H	L
	L	H

Fig. 4

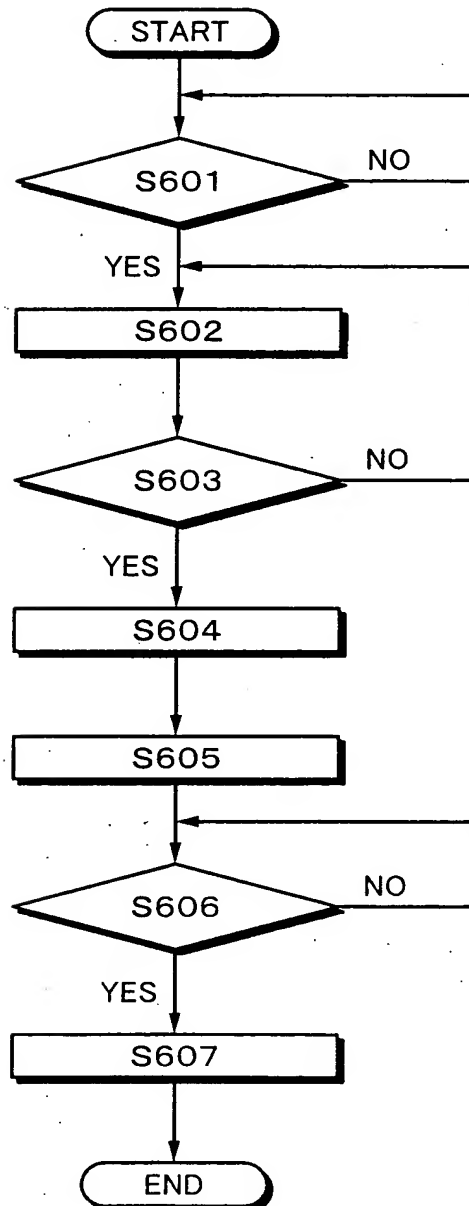


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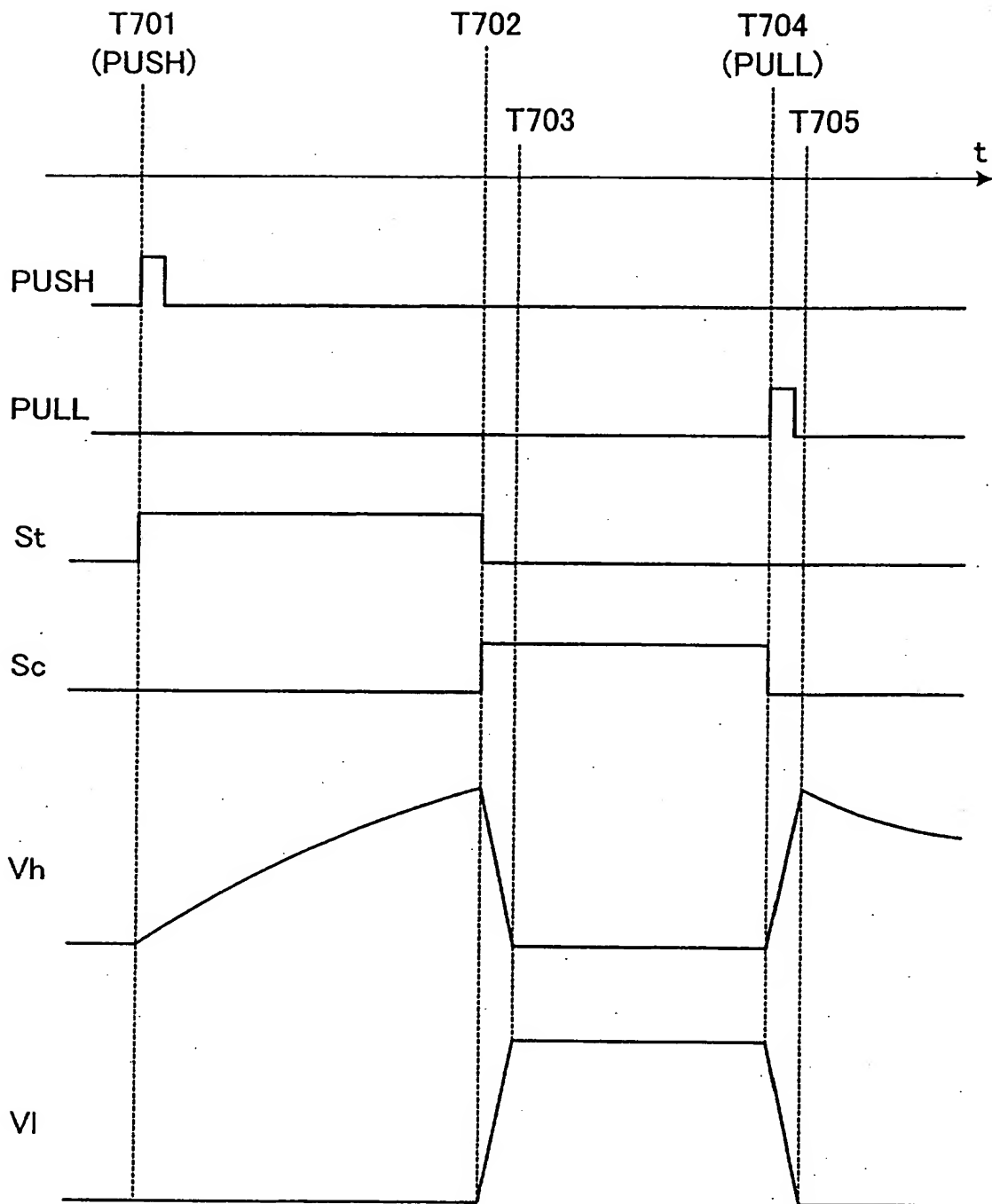
Fig. 5



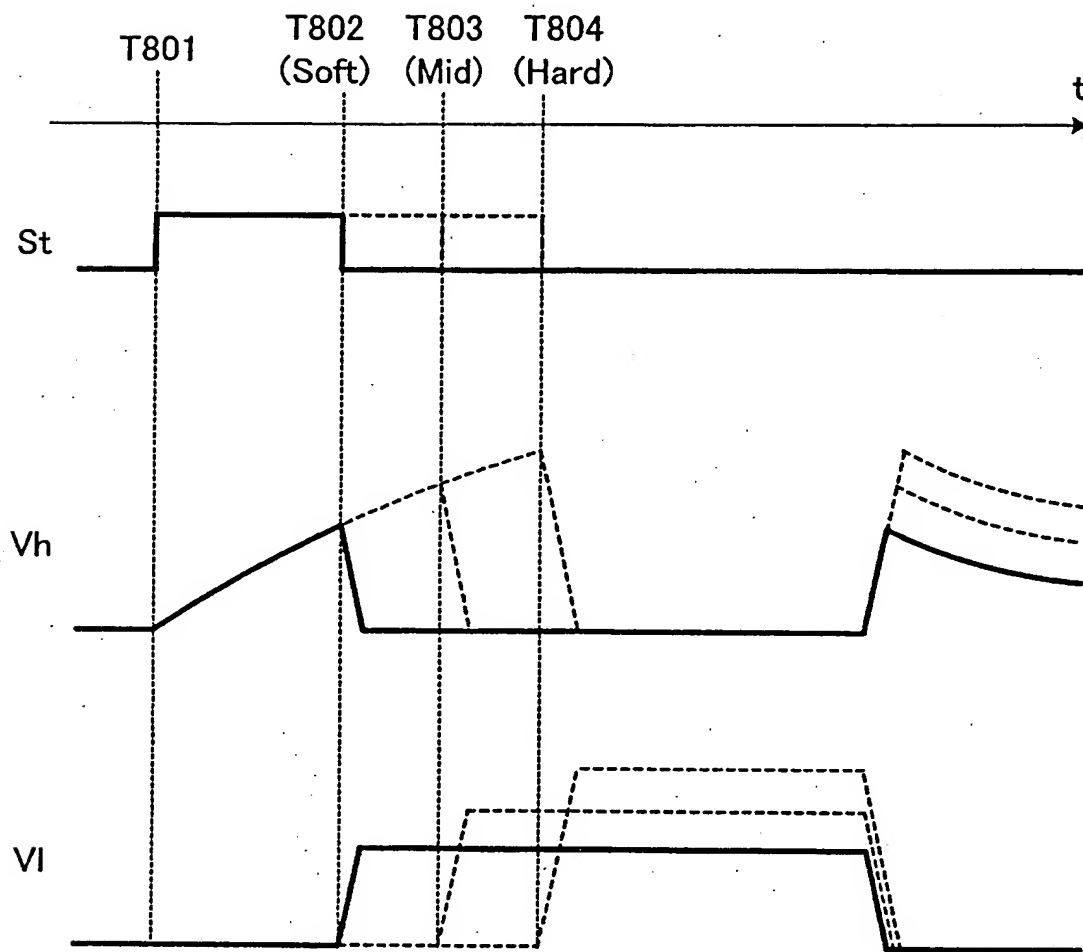
**Fig. 6**



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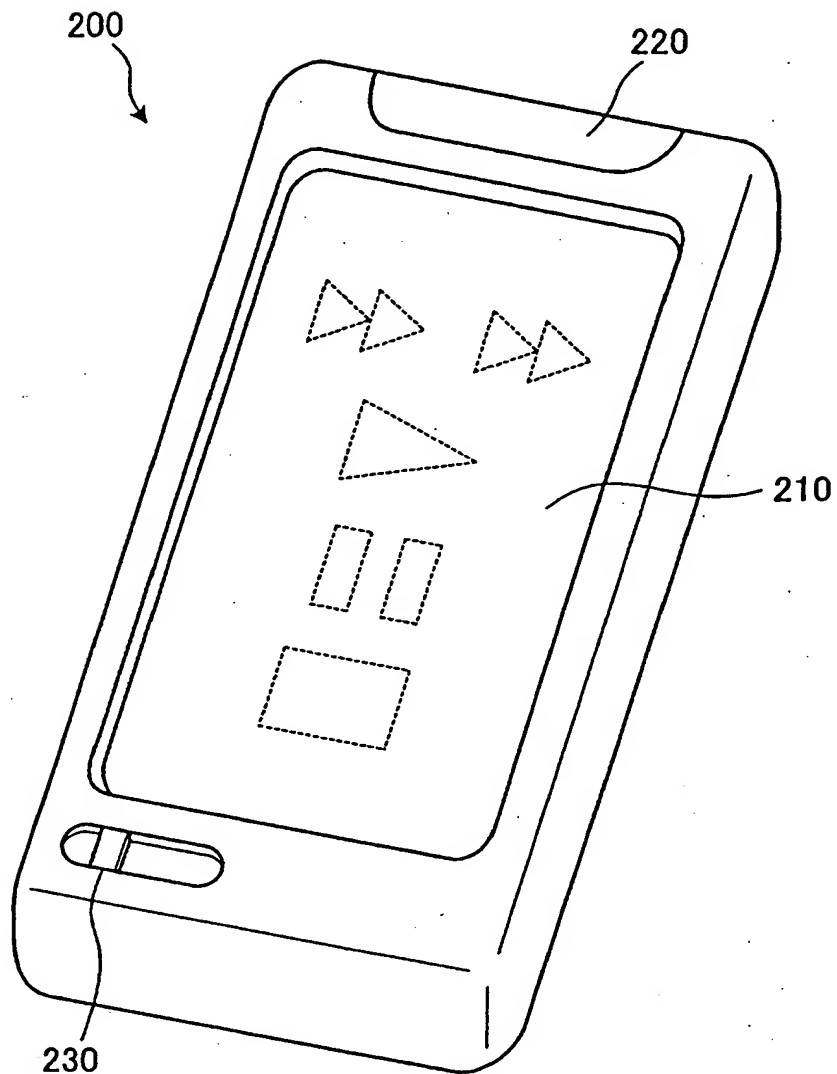
**Fig. 7**

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**Fig. 8**



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**Fig. 9**

## DESCRIPTION OF REFERENCE NUMERALS

1	LIQUID CRYSTAL DISPLAY PORTION
1a	DISPLAY PANEL
1b	FRAME
2	TOUCH PANEL PORTION
2a	PRESS PORTION
2b	FRAME
3	PIEZOELECTRIC ACTUATOR
4	FLEXIBLE BOARD
5	A/D CONVERTER
6	TOUCH PANEL DETECTION PORTION
7	SENSE PRESSURE SET PORTION
8	ACTUATOR CONTROL PORTION
9	DRIVER CIRCUIT
31a, 31b	WIRING TERMINAL
41	MOUNTING PORTION
41a, 41b	THROUGH-HOLE
41c	CENTER SPACER PORTION
42a, 42b	WIRING PATTERN
61	PRESS FORCE DETECTION PORTION
62	COORDINATE DETECTION PORTION
71	SENSE PRESSURE SET SWITCH
81	TIMER
82	REFERENCE VOLTAGE CONTROL PORTION
83	CONTROL SIGNAL OUTPUT PORTION

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100 INPUT APPARATUS  
S601 DOES TIMER START COUNTING ?  
S602 GRADUALLY INCREASE Vref.  
S603 TIMER COMPUTERS COUNTING.  
S604 HOLD Vref.  
S605 TIMING SIGNAL → H  
S606 RECEIVE PULL ?  
S607 TIMING SIGNAL → L